

# INTERNATIONAL SEARCH REPORT

Int. Patent Application No.  
PCT/IB2004/003696

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B82B3/00 C23C16/04 H01J37/317

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B82B C23C H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YAU S T ET AL: "LASER-ASSISTED DEPOSITION OF NANOMETER STRUCTURES USING A SCANNING TUNNELING MICROSCOPE" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 57, no. 27, 31 December 1990 (1990-12-31), pages 2913-2915, XP000222958 ISSN: 0003-6951	1-4,7-10
Y	the whole document	5,6,11
Y	US 5 294 465 A (GALLAGHER ET AL) 15 March 1994 (1994-03-15) column 6, lines 9-39; figure 1 column 13, lines 22-32; figure 6	5,6
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

27 January 2005

Date of mailing of the International search report

03/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Hoyer, W

## INTERNATIONAL SEARCH REPORT

International Application No  
IB2004/003696

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SHTOKMAN M I: "Possibility of laser nanomodification of surfaces by means of a scanning tunneling microscope" OPTOELECTRON INSTRUM DATA PROCESS; OPTOELECTRONICS, INSTRUMENTATION AND DATA PROCESSING (ENGLISH TRANSLATION OF AVTOMETRIYA) 1989, no. 3, 1989, pages 27-37, XP009043144 page 27, paragraph 1 pages 28-29 pages 33-36	11
A	----- BONEBERG J ET AL: "Mechanism of nanostructuring upon nanosecond laser irradiation of a STM tip" APPL PHYS A; APPLIED PHYSICS A: MATERIALS SCIENCE & PROCESSING OCT 1998 SPRINGER-VERLAG GMBH & COMPANY KG, BERLIN, GERMANY, vol. 67, no. 4, October 1998 (1998-10), pages 381-384, XP002315242 page 381, right-hand column	1-10
A	----- US 4 550 257 A (BINNIG ET AL) 29 October 1985 (1985-10-29) the whole document -----	1-11

# INTERNATIONAL SEARCH REPORT

onal Application No  
PCT/IB2004/003696

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5294465	A	15-03-1994	US	5015323 A	14-05-1991
			US	5126574 A	30-06-1992
US 4550257	A	29-10-1985	DE	3584994 D1	06-02-1992
			EP	0166308 A2	02-01-1986
			JP	1643485 C	28-02-1992
			JP	3009615 B	08-02-1991
			JP	61018156 A	27-01-1986